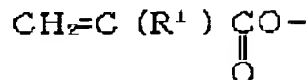


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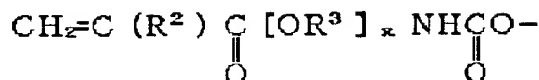
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APPLICANT : SHOWA DENKO KK;

INVENTOR : NISHIOKA AYAKO;

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TITLE : POLYMERIZABLE COMPOSITION AND
USE THEREOF



I

II

ABSTRACT : PROBLEM TO BE SOLVED: To provide an electrolyte with improved strength, stability and electrically characteristic, by adding inorganic oxide fine particles having a polymerizable functional group for polymerization.

SOLUTION: A polymerizable composition containing one kind of polymerizable organic compound, electrolyte salt and an inorganic oxide fine particles having polymerizable functional group expressed by formula I or II, is used. In the formula, R^1 and R^2 represent hydrogen or an alkyl group, R^3 is a bivalent group, (x) is 0 or a value 1-10, and R^1 , R^2 , R^3 and the value (x) in the polymerizable functional group in the same molecule are independent from each other. The polymer solid electrolyte with improved strength, stability and electrical characteristic is used so as to provide a non-aqueous battery and an electric double layer capacitor. A high energy and high density battery with excellent current characteristic, safety and reliability and a long lifetime, is thereby obtained, and a double layer capacitor having an excellent cycle characteristic can be obtained.

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